

S/N: 10/507,311

IFW  
1731  
PATENT  
Confirmation No. 4080




**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Ralf Wehrspohn et al. Examiner: Unassigned  
Serial No.: 10/507,311 Group Art Unit: 1731  
Intl. Filing Date: 11 March 2003 Docket: 14836-46755  
Title: Method for Producing Hollow Fibres

**CERTIFICATE UNDER 37 CFR 1.8:**

The undersigned hereby certifies that this Transmittal Letter and the papers, as described herein, are being deposited via First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on March 7, 2006.

By:   
Tim Tingkang Xia

**TRANSMITTAL**

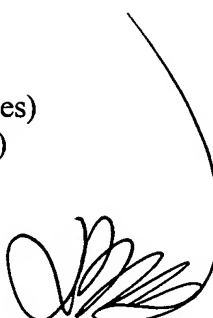
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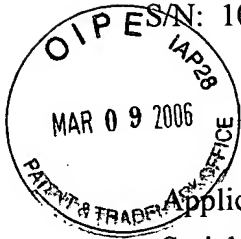
Sir:

We are transmitting herewith the attached:

- ☒ Transmittal Sheet containing Certificate of Mailing (1 page)
- ☒ Information Disclosure Statement (37 C.F.R. § 1.97(b)) (2 pages)
- ☒ Form PTO-1449 Listing Twenty-Five (25) References (1 page)
- ☒ Copies of Non-US References (22 References)
- ☒ Return postcard

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By:   
Name: Tim Tingkang Xia

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Customer No. 24728**

**INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(b))**

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

In accordance with 37 C.F.R. §1.98(a)(2), a copy of each non-U.S. patent document or other information listed on the enclosed Form 1449 is provided herewith, if applicable.


No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Respectfully submitted,

MORRIS, MANNING & MARTIN, LLP

March 7, 2006

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## INFORMATION DISCLOSURE STATEMENT

IN AN APPLICATION

(Use several sheets if necessary)

Docket Number: 14836-46755

Serial Number: 10/507,311

Applicant: Ralf Wehrspohn et al.

Date Mailed: March 7, 2006

Filing Date: March 11, 2003

Group Art Unit: Unassigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1	4,689,186	8/25/87	Bornat			
	2	4,874,484	10/17/89	Foell, et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	3	WO 01 09414 A	2/8/01	PCT			X	
	4	DE 100 23 456 A1	2/1/01	Germany				X

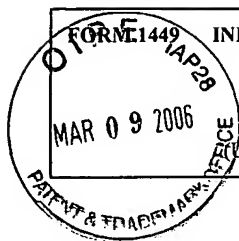
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	5	CEPAK, V. M. et al.; "Preparation of Polymeric Micro- and Nanostructures Using a Template-Based Deposition Method"; Chem. Mater.; (1999); pp. 1363-1367; Vol. 11.						
	6	STEINHART, M. et al.; "Polymer Nanotubes by Wetting of Ordered Porous Templates"; Science; (June 14, 2002); page 1997; Vol. 296; American Association for the Advancement of Science; US.						
	7	WEHRSPHON, R. B. et al.; "Polymer Nanotubes by Wetting of Ordered Porous Templates"; Selected Results; (2003); <a href="http://www.mpi-halle.mpg.de/annual_reports/2002.pdf/jb_results_10.pdf">http://www.mpi-halle.mpg.de/annual_reports/2002.pdf/jb_results_10.pdf</a>						
	8	STEINHART, M. et al.; "Curvature-Directed Crystallization of Poly (vinylidene difluoride) in Nanotube Walls"; Macromolecules; (2003); pp. 3646-3651; Vol. 36.						
	9	KIRK, O.; "Hollow-Fiber Membranes"; Encyclopedia of Chemical Technology, 4th Ed.; pp. 312-313; Vol. 13.						
	10	CHIEN, J. et al.; "Superconducting Hollow and Solid Fibers and Thin Films of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> from a Polymeric Precursor"; Adv. Mater.; (1990); pp. 305-309; Vol. 2.						
	11	KIRK, O.; "Hollow-Fiber Membranes"; Encyclopedia of Chemical Technology, 4th Ed.; pp. 317-322; Vol. 13.						
	12	WHITESIDES, G.; "Molecular Self-Assembly and Nanochemistry: A Chemical Strategy for the Synthesis of Nanostructures"; Science; (1991); pp. 1312-1319; Vol. 254.						
	13	MARTIN, C.; "Nanomaterials: A Membrane-Based Synthetic Approach"; Science; (1994); pp. 1961-1965; Vol. 266.						
	14	WU, S.; "Wetting of High-Energy Surfaces"; Polymer Interface and Adhesion; (1982); Chapter 6,						
	15	GENNES, P.; "Wetting: Statics and Dynamics"; Rev. Mod. Phys; (1985); pp. 827-863; Vol. 57.						
	16	AUSSERE, A. et al.; "Existence and Role of the Precursor Film in the Spreading of Polymer Liquids"; Phys. Rev. Lett.; (1986); pp. 2671-2674; Vol. 57.						
	17	LEGER, M. et al.; "Precursor Film Profiles of Spreading Liquid Drops"; Phys. Rev. Lett.; (1988); pp. 2390-2393; Vol. 60.						
	18	PEREZ, E. et al.; "Spreading Dynamics of Polydimethylsiloxane Drops: Crossover from Laplace to Van der Waals Spreading"; J. Coll. Interface Sci.; (2001); pp. 178-193; Vol. 234.						

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.



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19	BERNADINER, M.; "A Capillary Microstructure of the Wetting Front"; Transport in Porous Media; (1998); pp. 251-265; Vol. 30.
20	MASUDA, H. et al.; "Ordered Metal Nanohole Arrays Made by a Two-Step Replication of Honeycomb Structures of Anodic Alumina"; Science; (1995); pp. 1466-1468; Vol. 268.
21	MASUDA, H. et al.; "Highly Ordered Nanochannel-Array Architecture in Anodic Alumina"; Appl. Phys. Lett.; (1997); pp. 2770-2772; Vol. 71.
22	LI, A. et al.; "Polycrystalline and Monocrystalline Pore Arrays with Large Interpore Distance in Anodic Alumina"; Electrochem. Sol. St. Lett. (2000); pp. 131-134; Vol. 3.
23	MASUDA, H. et al.; "Square and Triangular Nanohole Array Architectures in Anodic Alumina"; Adv. Mater.; (2001); pp. 189-192; Vol. 13.
24	AUTUMN, K. et al.; "Adhesive Force of a Single Gecko Foot-Hair"; Nature; (2000); p. 681-685; Vol. 405.
25	CHEN, W. et al.; "Ultrahydrophobic and Ultralyophobic Surfaces: Some Comments and Examples"; Langmuir; (1999); pp. 3395-3399; Vol. 15.

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